

AMENDMENTS TO THE CLAIMS

Kindly amend the claims, without prejudice, without admission, without surrender of subject matter, and without any intention of creating any estoppel as to equivalents, as follows:

1. (Currently Amended) Toothed belt for use with oil and, the belt comprising:
 - a body,
 - a plurality of teeth extending from at least a first surface of said body, said teeth being coated by a first fabric, and
 - a plurality of resistant inserts;

~~characterized in that~~wherein said resistant inserts ~~are~~ comprise fibers produced from at least a first and a second material;

wherein said toothed belt is adapted to operate in ~~direct~~ substantially continuous contact with oil or partially immersed in oil.
2. (Currently Amended) Toothed belt as claimed in claim 1, ~~characterized in that~~wherein said first material covers said second material at least partly.
3. (Currently Amended) Toothed belt as claimed in claim 2, ~~characterized in that~~wherein said first material entirely surrounds said second material.
4. (Currently Amended) Toothed belt as claimed in claim 3, ~~characterized in that~~wherein said first material has a lower modulus with respect to said second material.

5. (Currently Amended) Toothed belt as claimed in claim 1, ~~characterized in that~~wherein, in section, said second material occupies a sectional surface between about 15% and about 75% of ~~the a~~ total sectional surface of the body.

6. (Currently Amended) Toothed belt as claimed in claim 5, ~~characterized in that~~wherein, in section, said second material occupies a sectional surface between about 35% and 45% of ~~the a~~ total sectional surface of the body.

7. (Currently Amended) Toothed belt as claimed in claim 1, characterized in that said resistant inserts ~~have~~include two twists in the same direction.

8. (Currently Amended) Toothed belt as claimed in claim 1, ~~characterized in that~~wherein said first and said second material are chosen ~~in from~~ the group ~~constituted by~~consisting of glass ~~fibres~~fibers, aramid ~~fibres~~fibers, polyester ~~fibres~~fibers, PBO ~~fibres~~fibers and carbon ~~fibres~~fibers.

9. (Currently Amended) Toothed belt as claimed in claim 8, ~~characterized in that~~wherein said first material is glass ~~fibres~~fiber.

10. (Currently Amended) Toothed belt as claimed in claim ~~7~~8, ~~characterized in that~~wherein said second material is carbon ~~fibres~~fiber.

11. (Currently Amended) Toothed belt as claimed in claim 1, ~~characterized in that~~wherein said resistant inserts have been treated with an RFL comprising a latex suitable to resist oils.

12. (Currently Amended) Toothed belt as claimed in claim 11, ~~characterized in that~~wherein said latex comprises an elastomeric material formed from a copolymer obtained from a diene monomer and a monomer containing nitrile groups.

13. (Currently Amended) Toothed belt as claimed in claim 12, ~~characterized in that~~wherein said copolymer is formed from a diene and from a monomer containing nitrile groups in a percentage between 33 and 49 weight % with respect to the final copolymer.

14. (Currently Amended) Toothed belt as claimed in claim 13, ~~characterized in that~~wherein said copolymer is formed from a diene and from a monomer containing nitrile groups in a percentage of 39 weight %.

15. (Currently Amended) Toothed belt as claimed in claim 1, ~~characterized in that~~wherein said fabric is externally coated by a resistant layer, which comprises a fluorinated plastomer, a first elastomeric material and a vulcanizing agent; and in that said fluorinated plastomer is present in said resistant layer in an amount greater than said first elastomeric material.

16. (Currently Amended) Toothed belt as claimed in claim 15, ~~characterized in that~~wherein said body comprises a mixture based on a second elastomeric material formed from a copolymer obtained from a diene monomer and a monomer containing nitrile groups.

17. (Currently Amended) Toothed belt as claimed in claim 15, ~~characterized in that~~wherein said resistant layer comprises said fluorinated plastomer in an amount in weight between 101 and 150 parts in weight with respect to said first elastomeric material.
18. (Currently Amended) Toothed belt as claimed in claim 15, ~~characterized in that~~wherein said fluorinated plastomer is polytetrafluoroethylene.
19. (Currently Amended) Toothed belt as claimed in claim 15, ~~characterized in that~~wherein ~~the~~a back of said belt is covered by a second fabric.
20. (Currently Amended) Toothed belt as claimed in claim 19, ~~characterized in that~~wherein said second fabric is externally coated by a second resistant layer.
21. (Currently Amended) Toothed belt as claimed in claim 20, ~~characterized in that~~wherein said second resistant layer is the same as said first resistant layer.
22. (Currently Amended) Toothed belt as claimed in claims 15, ~~characterized in that~~wherein said elastomeric material comprises ~~fibres~~fibers.
23. (Currently Amended) Toothed belt as claimed in claim 22, ~~characterized in that~~wherein said ~~fibres~~fibers are present in an amount in weight between 0.5 and 15% with respect to said elastomeric material.

24. (Currently Amended) Toothed belt as claimed in claim 1, ~~characterized in that it wherein~~
said toothed belt comprises, between the tothing and said a back surface of said belt, sides
treated with a polymer resistant to swelling.

25. (Currently Amended) Timing control system for a motor vehicle comprising at least one
driving pulley, one driven pulley, ~~and a toothed belt adapted for use in substantially continuous~~
contact with oil or partly immersed in oil, and materials for maintaining use ~~said toothed belt in~~
an oil-wet condition; said toothed belt comprising a body, and one or more teeth extending from
at least a first surface of said body, said teeth being covered by a first fabric, and a plurality of
resistant inserts, ~~characterized in that wherein~~ said resistant inserts comprise ~~fibres~~fibers
produced from at least a first and a second material.

26. (Currently Amended) Control system as claimed in claim 25, ~~characterized in~~
~~that~~wherein said first material covers said second material at least partly.

27. (Currently Amended) Control system as claimed in claim 26, ~~characterized in~~
~~that~~wherein said first material entirely surrounds said second material.

28. (Currently Amended) Control system as claimed in claim 27, ~~characterized in~~
~~that~~wherein said first material has a lower modulus with respect to said second material.

29. (Currently Amended) Control system as claimed in claim 25, ~~characterized in~~
~~that~~wherein, in cross-section, said second material occupies a surface between about 15% and
about 75% of the ~~a~~ total sectional surface of the body.

30. (Currently Amended) Control system as claimed in claim 29, ~~characterized in~~
~~that~~wherein, in cross-section, said second material occupies a surface between about 35% and
45% of the ~~a~~ total sectional surface of the body.

31. (Currently Amended) Control system as claimed in claim 25, ~~characterized in~~
~~that~~wherein said resistant inserts have include two twists in the same direction.

32. (Currently Amended) Control system as claimed in claim 25, ~~characterized in~~
~~that~~wherein said first and said second material are chosen ~~in~~ from the group ~~constituted~~
~~by~~consisting of glass ~~fibres~~fibers, aramid ~~fibres~~fibers, polyester ~~fibres~~fibers, PBO ~~fibres~~fibers
and carbon ~~fibres~~fibers.

33. (Currently Amended) Control system as claimed in claim 32, ~~characterized in~~
~~that~~wherein said first material is glass ~~fibrefiber~~fiber.

34. (Currently Amended) Control system as claimed in claim 33~~32~~, ~~characterized in~~
~~that~~wherein said second material is carbon ~~fibrefiber~~fiber.

35. (Currently Amended) Control system as claimed in claim 25, ~~characterized in~~
~~that~~wherein said resistant inserts have been treated with an RFL comprising a latex suitable to
resist oils.

36. (Currently Amended) Control system as claimed in claim 35, ~~characterized in~~
~~that~~wherein said latex comprises an elastomeric material formed from a copolymer obtained
from a diene monomer and a monomer containing nitrile groups.

37. (Currently Amended) Control system as claimed in claim 36, ~~characterized in~~
~~that~~wherein said copolymer is formed from a diene and from a monomer containing nitrile
groups in a percentage between 33 and 49 weight % with respect to the final copolymer.

38. (Currently Amended) Control system as claimed in claim 37, ~~characterized in~~
~~that~~wherein said copolymer is formed from a diene and from a monomer containing nitrile
groups in a percentage of 39 weight %.

39. (Currently Amended) Control system as claimed in claim 25, ~~characterized in~~
~~that~~wherein said fabric is externally coated by a resistant layer, which comprises a fluorinated
plastomer, a first elastomeric material and a vulcanizing agent; and in that said fluorinated
plastomer is present in said resistant layer in an amount greater than said first elastomeric
material.

40. (Currently Amended) Control system as claimed in claim 39, ~~characterized in~~
~~that~~wherein said body comprises a mixture based on a second elastomeric material formed from
a copolymer obtained from a diene monomer and a monomer containing nitrile groups.

41. (Currently Amended) Control system as claimed in claim 39, ~~characterized in~~
~~that~~wherein said resistant layer comprises said fluorinated plastomer in an amount in weight
between 101 and 150 parts in weight with respect to said first elastomeric material.

42. (Currently Amended) Control system as claimed in claim 39, ~~characterized in~~
~~that~~wherein said fluorinated plastomer is polytetrafluoroethylene.

43. (Currently Amended) Control system as claimed in claim 25, ~~characterized in~~
~~that~~wherein ~~a~~ the back of said belt is covered by a second fabric.

44. (Currently Amended) Control system as claimed in claim ~~25~~43, ~~characterized in~~
~~that~~wherein said second fabric is externally coated by a second resistant layer.

45. (Currently Amended) Control system as claimed in claim ~~25~~44, ~~characterized in~~
~~that~~wherein said second resistant layer is the same as said first resistant layer.

46. (Currently Amended) Control system as claimed in claim 25, ~~characterized in~~
~~that~~wherein said elastomeric material comprises ~~fibres~~fibers.

47. (Currently Amended) Control system as claimed in claim 46, ~~characterized in that~~wherein said ~~fibres~~fibers are present in an amount in weight between 0.5 and 15% with respect to said elastomeric material.

48. (Currently Amended) Control system as claimed in claim 25, ~~characterized in that~~it wherein said toothed belt comprises, between the toothing and said a back surface of said belt, sides treated with a polymer resistant to swelling.

49. (Currently Amended) Control system as claimed in claim 48, ~~characterized in that~~wherein the control system~~it~~ comprises a pad tensioner or a pad.

50. (Currently Amended) Control system as claimed in claim 4039, ~~characterized in that~~wherein said resistant layer comprises said fluorinated plastomer in an amount in weight between 101 and 150 parts in weight with respect to said elastomeric material.

51. (Currently Amended) A toothed belt adapted for use in substantially continuous contact with oil or partly immersed in oil, the belt comprising a body, a plurality of teeth extending from at least a first surface of said body, said teeth being coated by a first fabric, and a plurality of resistant inserts; ~~characterized in that,~~wherein said resistant inserts are produced from at least a first and a second material and in that said first material ~~is~~includes glass ~~fibres~~fiber and said second material ~~is~~includes carbon ~~fibres~~fiber.

52. (New) The toothed belt as claimed in claim 51, wherein said first material covers said second material at least partly.

53. (New) The toothed belt as claimed in claim 52, wherein said first material entirely surrounds said second material.

54. (New) The toothed belt as claimed in claim 53, wherein said first material has a lower modulus with respect to said second material.

55. (New) The toothed belt as claimed in claim 51, wherein, in section, said second material occupies a sectional surface between about 15% and about 75% of a total sectional surface of the body.

56. (New) The toothed belt as claimed in claim 55, wherein, in section, said second material occupies a sectional surface between about 35% and 45% of a total sectional surface of the body.

57. (New) The toothed belt as claimed in claim 51, wherein said resistant inserts have two twists in the same direction.

58. (New) The toothed belt as claimed in claim 51, wherein said resistant inserts have been treated with an RFL comprising a latex suitable to resist oils.

59. (New) The toothed belt as claimed in claim 58, wherein said latex comprises an

elastomeric material formed from a copolymer obtained from a diene monomer and a monomer containing nitrile groups.

60. (New) The toothed belt as claimed in claim 59, wherein said copolymer is formed from a diene and from a monomer containing nitrile groups in a percentage between 33 and 49 weight % with respect to the final copolymer.

61. (New) The toothed belt as claimed in claim 60, wherein said copolymer is formed from a diene and from a monomer containing nitrile groups in a percentage of 39 weight %.

62. (New) The toothed belt as claimed in claim 51, wherein said fabric is externally coated by a resistant layer, which comprises a fluorinated plastomer, a first elastomeric material and a vulcanizing agent; and in that said fluorinated plastomer is present in said resistant layer in an amount greater than said first elastomeric material.

63. (New) The toothed belt as claimed in claim 62, wherein said body comprises a mixture based on a second elastomeric material formed from a copolymer obtained from a diene monomer and a monomer containing nitrile groups.

64. (New) The toothed belt as claimed in claim 62, wherein said resistant layer comprises said fluorinated plastomer in an amount in weight between 101 and 150 parts in weight with respect to said elastomeric material.

65. (New) The toothed belt as claimed claim 62, wherein said fluorinated plastomer is polytetrafluoroethylene.

66. (New) The toothed belt as claimed in claim 62, wherein a back of said belt is covered by a second fabric.

67. (New) The toothed belt as claimed in claim 66, wherein said second fabric is externally coated by a second resistant layer.

68. (New) The toothed belt as claimed in claim 67, wherein said second resistant layer is the same as said first resistant layer.

69. (New) The toothed belt as claimed in claim 62, wherein said first elastomeric material comprises fibres.

70. (New) The toothed belt as claimed in claim 51, wherein said toothed belt comprises, between the toothing and a back surface of said belt, sides treated with a polymer resistant to swelling.

71. (New) The toothed belt as claimed in claim 51 wherein the toothed belt is configured to replace a chain in a timing control systems without any dimensional variations being made to the timing control system.

72. (New) A method of providing a belt for use with oil, the method comprising:
- providing an oil-wet environment,
 - providing a toothed belt to operate in said oil-wet environment, said belt comprising:
 - a body,
 - a plurality of teeth extending from at least a first surface of said body, said teeth being coated by a first fabric, and
 - a plurality of resistant inserts;
 - wherein said resistant inserts comprise fibers produced from at least a first and a second material.
73. (New) The method of claim 72 wherein the oil wet environment further comprises an oil spray.
74. (New) The method of claim 72 wherein the oil wet environment further comprises an oil bath.
75. (New) The method of claim 72 wherein the oil transport system delivers oil at approximately 5.8 gallons/hour.
76. (New) The method of claim 72 wherein the oil wet environment provides oil at a temperature of approximately 284°C.

77. (New) The method of claim 72, wherein said first material covers said second material at least partly.

78. (New) The method of claim 77, wherein said first material entirely surrounds said second material.

79. (New) The method of claim 78, wherein said first material has a lower modulus with respect to said second material.

80. (New) The method of claim 72, wherein, in cross-section, said second material occupies a sectional surface between about 15% and about 75% of the total sectional surface of the body.

81. (New) The method of claim 80, wherein, in cross-section, said second material occupies a sectional surface between about 35% and about 45% of the total sectional surface of the body.

82. (New) The method of claim 72, characterized in that said resistant inserts include two twists in the same direction.

83. (New) The method of claim 72, wherein said first and said second material are chosen from the group consisting of glass fibers, aramid fibers, polyester fibers, PBO fibers and carbon fibers.

84. (New) The method of claim 83, wherein said first material is glass fiber.

85. (New) The method of claim 83, wherein said second material is carbon fiber.
86. (New) The method of claim 72, wherein said resistant inserts have been treated with an RFL comprising a latex suitable to resist oils.
87. (New) The method of claim 86, wherein said latex comprises an elastomeric material formed from a copolymer obtained from a diene monomer and a monomer containing nitrile groups.
88. (New) The method of claim 87, wherein said copolymer is formed from a diene and from a monomer containing nitrile groups in a percentage between 33 and 49 weight % with respect to the final copolymer.
89. (New) The method of claim 88, wherein said copolymer is formed from a diene and from a monomer containing nitrile groups in a percentage of 39 weight %.
90. (New) The method of claim 72, wherein said fabric is externally coated by a resistant layer, which comprises a fluorinated plastomer, a first elastomeric material and a vulcanizing agent; and in that said fluorinated plastomer is present in said resistant layer in an amount greater than said first elastomeric material.
91. (New) The method of claim 90, wherein said body comprises a mixture based on a

second elastomeric material formed from a copolymer obtained from a diene monomer and a monomer containing nitrile groups.

92. (New) The method of claim 90, wherein said resistant layer comprises said fluorinated plastomer in an amount in weight between 101 and 150 parts in weight with respect to said first elastomeric material.

93. (New) The method of claim 90, wherein said fluorinated plastomer is polytetrafluoroethylene.

94. (New) The method of claim 90, wherein the back of said belt is covered by a second fabric.

95. (New) The method of claim 94, wherein said second fabric is externally coated by a second resistant layer.

96. (New) The method of claim 95, wherein said second resistant layer is the same as said first resistant layer.

97. (New) The method of claim 90, wherein said elastomeric material comprises fibers.

98. (New) The method of claim 97, wherein said fibers are present in an amount in weight between 0.5 and 15% with respect to said elastomeric material.

99. (New) The method of claim 97, wherein said fibres are present in an amount in weight between 0.5 and 15% with respect to said elastomeric material.